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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,108	12/10/2004	Lai-Xi Wang	4115-186	3314
23448 7590 07/09/2007 INTELLECTUAL PROPERTY / TECHNOLOGY LAW PO BOX 14329			EXAMINER	
			LEWIS, PATRICK T	
RESEARCH T	RIANGLE PARK, NC	27709	ART UNIT PAPER NUMBER	
·			1623	-
			MAIL DATE	DELIVERY MODE
			07/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Autieus O	10/518,108	WANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Patrick T. Lewis	1623				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was really reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin iiil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication.				
Status		·				
1) Responsive to communication(s) filed on						
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	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	n parto Quayro, 1000 C.D. 11, 40	50 O.G. 215.				
_						
4) Claim(s) <u>1-4,9-11,15,16,19,25,26,28,29 and 37</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6) Claim(s) is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-4,9-11,15,16,19,25,26,28,29 and 37</u>	are subject to restriction and/or	election requirement.				
Application Papers		•				
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119	, .					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
· · · · · · · · · · · · · · · · · · ·						
and the service of the priority decarried have been received.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	od.				
	or the certified copies flot receive	5u.				
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date <u>07112005</u> .	6) Other:	aton Application				
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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group 1, claim(s) 1-4, 9-10 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a monasaccharide.
- Group 2, claim(s) 1, 3, 9, 11 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a polyol.
- Group 3, claim(s) 1-4, 9 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a linear oligosaccharide.
- Group 4, claim(s) 1-4, 9 and 15-16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a cyclic oligosaccharide.
- Group 5, claim(s) 1, 3, 9 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a polyamine.
- Group 6, claim(s) 1-4, 9 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is cholic acid.
- Group 7, claim(s) 1, 3, 9 and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is cholesterol.
- Group 8, claim(s) 1, 3, 9, and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a peptide.
- Group 9, claim(s) 1, 3, 9, and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a protein.

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- Group 10, claim(s) 1, 3, 9, and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a porphyrin.
- Group 11, claim(s) 1, 3, 9, and 16, drawn to a maleimide cluster comprising at least one core molecule wherein said core molecule is a calix[4]arene.
- Groups 12-23, claim(s) 19, 28-29 and 37, drawn to a multivalent protein comprising a maleimide cluster of Groups 1-11.
- Groups 24-28, claim(s) 25-26, drawn to a method of delivering a peptide drug comprising a maleimide cluster of Groups 1, 3-4 or 6.
- 2. The inventions listed as Groups 1-28 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups 1-28 do not share a substantial common chemical core and thus have different technical features.
- 3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

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unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick T. Lewis whose telephone number is 571-272-0655. The examiner can normally be reached on Monday - Friday 10 am to 3 pm (Maxi Flex).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dr. Patrick L Lewis
Primary Examiner
Art Unit 1623

ptl